

DIVERSION

Design Survey

The following information shall be obtained and recorded in the field notes:

- a. Centerline profile and cross-sections.
- b. Topography at outlet (narrative is adequate if flat terrain.)
- c. Soils description.

Design Data

The following shall be considered minimum in the design of all diversions. The information shall be recorded in the design notes. Appropriate data will be transferred to the construction drawings.

- a. Hydrologic computations.
- b. Hydraulic design.
- c. Sediment yield from drainage area.
- d. Outlet design.
- e. Revegetation plans.
- f. Quantity computations.

Drawings and Specifications

The construction drawings shall include but will not be limited to the following items:

- a. Plan, profile, and cross section of the diversion.
- b. Details of the outlet.
- c. Revegetation details.
- d. Location map. (May be combined with a.).
- e. Structural layout and details.

Practice specifications and, if needed, applicable "Items of Work and Construction Details" shall be provided for each item or phase of construction. Specifications may be shown on the drawings.

Layout Survey Notes

The following information shall be recorded in the field notes.

- a. Centerline and slope stakes for ditch and dikes.
- b. Grade and alignment stakes for outlet.

Compliance Check

The complexity of the structure will dictate the need for compliance checks during construction. All compliance checks shall be recorded in the field notes. Narratives of construction checks shall be recorded in the Job Diary or on a sheet in the field notes. Compliance checks shall include but will not be limited to the following:

- a. Profile of excavated ditch & dikes (100 feet maximum interval).
- b. Cross sections of ditch & dikes (500 feet maximum interval).
- c. Controlling elevations, materials, and dimensions of outlet.
- d. Statement of compliance.

As-Built Plans

As-Built drawings shall be prepared for all structures. These drawings shall reflect all significant changes in linear measurements, quantities, alignment or design changes. If there were no significant changes, the original drawings shall be marked "As-Built".